# **Everyday Math II Answer Keys**

### Everyday Math II Determining Mean, Median and Mode (Key)

**Directions:** Find the mean, median and mode (when appropriate) for each set of data.

Set A	Set B	Set C
14, 18, 12, 18, 14, 25	10,000	4 Hot Dogs
32, 18, 16	10,000	3 Steaks
	10,000	13 Pizzas
	10,000	
	12,000	
	58,000	
Mean <u>18.55</u>	Mean <u>18,333</u>	Mean <u><b>6.66</b></u>
Median <u>18</u>	Median <u>10,000</u>	Median <u>4</u>
Mode <u>18</u>	Mode <b>10,000</b>	Mode <b>no mode</b>

#### Set D

The most trouble-free 1991 car models sold in the USA

	Model/Base Price		Problems/100 Cars
1.	Lexus LS400	\$39,000	47
2.	Acura NSX	\$61,000	71
3.	BMW 750iL	\$74,600	74
4.	Lexus ES250	\$21,500	76
5.	Mercedes-Benz S	\$63,600	77
6.	Infiniti Q45	\$40,000	78
7.	Pontiac 6000	\$12,999	78
8.	Toyota Camry	\$12,198	79
9.	Toyota Cressida	\$22,698	80
10.	Honda CRX	\$ 9,325	89
11.	Mercedes-Benz 190E	\$28,050	89

Mean <u>76.18</u> Median <u>78</u> Mode <u>78, 89</u>

## **Everyday Math II Probability (Key)**

Probability is the chance of an event happening, If you toss a coin, there are two possibilities. The coin may land showing its head or it may land showing its tail. The probability of an event is written as a fraction.

- The Greenport Telephone book contains 75000 names. Fifteen Smiths are listed in the phone book. In a random selection from Greenport telephone numbers, what is the probability that the first number selected will belong to a Smith?
- 2. Liz works as a cashier in a grocery store. At the end of the day she had 12 quarters, 20 dimes, 18 nickels, and 30 pennies. She put all the coins in a bag.
  - a. What is the probability that the first coin she takes from the bag will be a dime? 1/4
  - b. What is the probability that the first coin she takes from the bag will be a penny? 3/8
  - c. What is the probability that the first coin she takes from the bag will be either a quarter or a nickel?

    3/8
- 3. Carlos received a shipment of sweaters to sell in his store. The shipment contained 10 small size sweaters, 15 medium sweaters, and 8 large sweaters. What is the probability that the first sweater he takes from the box will be a medium size?

  5/11
- 4. A carton contains 8 cans of tomato sauce and 6 cans of green beans.
  - a. What is the probability that the first can taken from the carton will be a can of tomato sauce?

    4/7
  - b. If the first can taken out is tomato and the second is green beans, what is the probability that the next can taken from the box will be green beans?

    5/12
- 5. Jose Acevedo, his wife Beatrice, and their son Felipe each bought a ticket for a chance to win a color TV. Altogether 540 tickets were sold.

- a. What is the probability that Jose will win the television? 1/540
- b. What is the probability that one of the Acevedos will win the TV set? 1/180

# **Everyday Math II Home Improvement (Key)**

**Tiling a Room:** Use the diagram at the bottom of this page to help you answer the following questions.

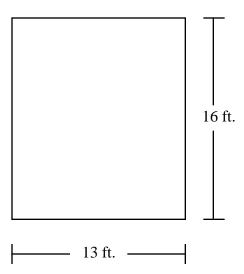
- Lila Andrews wants to tile the living room shown at the right. she chooses self-stick vinyl tile that costs
   .80 for each 12" by 12" (1 sq. ft.) tile.
  - a) How many tiles does Lila need for the living room?208 tiles
  - b) What is the total cost of this tile?

\$166.40

c) Lila also considers buying tile at a "close-out" sale for \$ .50 per 12" by 12" tile. However, she would have to buy 350 tiles at this price. what would be the cost of these 350 "close-out" tiles?

\$175.00

d) How many "close-out" tiles would Lila have left over after tiling the living room?142



Volume

#### Everyday Math II Converting Among Standard Measurements (Key)

1 gallon (gal) 1 quart 1 pint	<ul><li>= 4 quarts (qt)</li><li>= 2 pints (pt)</li><li>= 2 cups (c)</li></ul>	1 week = 7 days 1 day = 24 hours (hr) 1 hour = 60 minutes (min) 1 minute = 60 seconds (sec)
Length		Weight
Length 1 mile (mi)	= 1,760 yards (yd) or	Weight 1 ton (t) = $2,000$ pounds (lb)
S	= 1,760 yards (yd) or 5,280 feet (ft)	e
S	• • • •	1 ton (t) = $2,000$ pounds (lb)

Time

Convert the following measurements.

- How many quarts are in 7 gallons?
   28 quarts
- **3.** How many days are in 72 hours? **3 days**
- 5. How many yards are in 20 miles? 35,200 yards
- 7. How many ounces are in 3 pounds?48 ounces
- 9. How many pounds are in 16 tons?32,000 pounds

- 2. How many inches are in 4 yards? 144 inches
- 4. How many pints are in 6 pints?

  12 pints
- **6.** How many inches are in 10 feet? **120 inches**
- **8.** How many minutes are in a day? **1,440 minutes**
- **10.** How many quarts are in 40 gallons?

160 quarts